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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A building material, comprising:

a plurality of synthetic microspheres comprising a binding agent, wherein the binding agent comprises between about 0.1 to 50 wt.% of the weight of the microspheres, wherein the microspheres have having an alkali metal oxide content of less than about 10 wt.% based on the weight of the microspheres, wherein the synthetic microspheres are substantially chemically inert and have a higher calcium content as compared to cenospheres derived from coal combustion.

- 2. (Previously presented) The building material of Claim 1, further comprising a cementitious matrix.
- 3. (Previously presented) The building material of Claim 2, wherein the synthetic microspheres are substantially chemical inert when in contact with the cementitious matrix.
- 4. (Previously presented) The building material of Claim 1, wherein the synthetic microspheres have an average particle diameter of between about 30 to 1000 microns.
- 5. (Previously presented) The building material of Claim 4, wherein the synthetic microspheres comprise at least one synthetically formed cavity that is substantially enclosed by an outer shell.
- 6. (Previously presented) The building material of Claim 5, wherein the at least one cavity comprises about 30-95% of the aggregate volume of the microsphere.
- 7. (Previously presented) The building material of Claim 2, further comprising one or more fibers in the cementitious matrix.
- 8. (Previously presented) The building material of Claim 7, wherein at least some of the fibers are cellulose fibers.
- 9. (Previously presented) The building material of Claim 1, further comprising a hydraulic binder.
- 10. (Previously presented) The building material of Claim 1, wherein the synthetic microspheres comprise an aluminosilicate material.
- 11. (Currently amended) The building material of Claim 1, further comprising natural cenospheres <u>derived from coal combustion</u> wherein the average particle diameter of the <u>natural</u> cenospheres <u>derived from coal combustion</u> is substantially equal to the average particle size of the synthetic microspheres.

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12. (Currently amended) The building material of Claim 1, wherein the building material emprises is used as a pillar.

- 13. (Currently amended) The building material of Claim 1, wherein the building material emprises is used as a roofing tile.
- 14. (Currently amended) The building material of Claim 1, wherein the building material comprises is used as a siding.
- 15. (Currently amended) The building material of Claim 1, wherein the building material eomprises is used as a wall.
- 16. (New) The building material of Claim 1, wherein the synthetic microspheres comprise about 5.2 wt.% or more calcium oxide.